Axis of Symmetry etc. Name:

Find the axis of symmetry, vertex, and the x intercepts.

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| Problem # | axis of symmetry | vertex | x intercepts |
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1.)    y= x2 - 15x + 56   
  
  
  
  
  
2.)    y=x2 + 6x - 7   
  
  
  
  
  
3.)    y=x2 - 17x + 72   
  
  
  
  
  
4.)    y=x2 + x - 72

5.)   y= x2 + 18x + 80   
  
  
  
  
  
6.)    y= - 18x2 + 6x + 40   
  
  
  
  
  
7.)    y= 42x2 - 15x - 18   
  
  
  
  
  
8.)    y= 24x2 + 33x + 9

9.)    y= - 18x2 + 39x - 6   
  
  
  
  
  
10.)    y= 49x2 - 21x - 10   
  
  
  
  
  
11.)    y= 48x2 - 20x + 2   
  
  
  
  
  
12.)    y= - 32x2 - 8x + 24

13.)   y= - 10x2 + 19x - 6   
  
  
  
  
  
14.)   y= - 30x2 + 70x - 40   
  
  
  
  
  
15.)   y= 16x2 - 18x - 9   
  
  
  
  
  
16.)    y= - 2x2 + 4x + 2

17.)    y= 4x2 + 7x - 5   
  
  
  
  
  
18.)    y= - 12x2 + 20x - 8   
  
  
  
  
  
19.)    y= - x2 - 9x + 6   
  
  
  
  
  
20.)    y= 5x2 + 3x - 2